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buildingSMART
International

AnnualReport
2018

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Chairman's Welcome

Dear members of our buildingSMART community,

Welcome to the 2018 Annual Report. This past year, our shared journey to transform the building and infrastructure industries has been extraordinary. Our spring and fall standards summits have grown in size, quality and accomplishment.

Firstly, we had an amazing event in Paris in Spring, 2018, excellently supported by the French Chapter. Last fall, the summit in Tokyo was the largest ever, ably organized by buildingSMART Japan. The highlight for me was the annual buildingSMART awards program, with more entries of higher quality than ever before. Who can forget the awards dinner and presentation of the winners by Susan Keenliside, chair of the awards jury and program manager from buildingSMART Canada.

This spring, our Düsseldorf standards summit was even larger, with more than 1000 people attending across a full week of activities. BuildingSMART Germany did an outstanding job organizing and hosting, ably supported by buildingSMART international. New fellows were inducted during an evening banquet, including Birgitta Foster and Susan Keenliside, the first two women elevated to fellowship. This is an important milestone in the development of the community.

Spring and fall standards summits provide a forum for teams of people to work together to develop open standards. All of the projects are exciting, but perhaps the most exciting is the development of openBIM standards for rail design, construction and operation carried out by the Rail Room, with 24 team members spread across more than 10 countries.

"The buildingSMART mission is to transform the global building and infrastructure industries. Our mission is audacious, but can be achieved by teams of people working together across international boundaries"

Thank you for your participation in buildingSMART this past year. I look forward to seeing each of you at our next summit as we work together to transform the construction and infrastructure industries.

Patrick MacLeamy
Chairman
buildingSMART International

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Chief Executive - Year in Review

2018 was a fantastic year at buildingSMART, with many exciting things to report. I will discuss below some of the significant and important achievements of 2018. I want however to start with two less high-profile underpinning milestones;

1. The business strategy and operating model set in 2014 was reviewed and endorsed for another four-year period. This is important as it underlines the continuing validity of our goal to become THE industry standards body of reference for the built asset industry and recognises the continuing validity of our growth plans and our transitionary status.
2. The Washington Strategic Advisory Council meeting was a watershed in terms of opening up our technical vision and strategy to embrace the new enabling technologies that are a reality today.

These for me are both fundamentally important to our future; we have a proud past (as I have said before), our industry is now awake to the need for digital transformation and is hungry for the benefits of open digital way of working, it is important that we grow quickly to respond and that we share the burden of growth – amongst ourselves and with others. buildingSMART has a key role to play in this future but will only be successful as a robust community where we work together through the challenges ahead.

In short, our key asset is our strength of the community. we are all stressed by the demands for more output and must continue to work together to share the burden.

It is important to recognize the significant achievements in 2018. I highlight here, in no particular order, some, but by no means all, of the great achievements of 2018;

- **Professional Certification Program** – Individual Qualification Scheme
- **Paris** and **Tokyo** Summit improvements in numbers, quality and output
- **Standards Program**; Rail, Road, Common Schema, Room Steering Committees

- **bSI Awards** (run as part of the User Program) attracted record levels of participation and has resulted in very valuable case studies and publicity
- **Membership** continued to grow. I am particularly delighted to welcome CCCC, CRBIM, and Siemens to the Strategic Advisory Council and our other members who have joined
- **Working with others**: we signed a number of **MOUs** of particular note are those with GS1, WGIC and ProMaterial
- **Communications**: new digital newsletter launched in November
- **Resource** growth of the bSI; Aidan Mercer hired as our Marketing and Communication Director, Anne Mevatne, Standard Program support and the Norway based bSDD team of Sigve Pettersen, Product Manager and Chi Ho Lau, Operations Manager
- Established expanded operational **IT infrastructure** (Discourse, Monday, HubSpot, ShareFile) to enable the operations of our Rooms and work.
- First, ever formal company **Byelaws** approved and published

From an external perspective, I was also particularly pleased to note the World Economic Forums recognition of the importance of our work in their February 2018 report;

"Infrastructure and Urban Development Industry companies should support similar bottom-up consortia to standardize BIM data exchange …One such consortium exists – buildingSMART, which developed the Industry Foundation Class (IFC), the only open (non-proprietary) BIM data exchange standard – but more needs to be done."

And the McKinsey Global Infrastructure Initiative October 2018 recommendation;

"Create an industry-level group that sets data and technology standards to unlock opportunities presented by the Internet of Things (IoT), analytics, and artificial intelligence."

I would like to personally thank the whole community for their continued commitment and support, and I am encouraged by our growth and development.

Richard Petrie
Chief Executive
buildingSMART International

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Solutions and Standards Program

The Solutions and Standards Program continues to see strong growth in the output and delivery of important standards, but also the engagement and development of community expertise. The Standards Program has been renamed to take account of the variety of output that it generates.

All activities in the program follow the bSI process however some are in support of, or are precursors to, standards and are given the generic name, solutions. A solution can be many things from a technical guidance report or a toolkit.

The bSI Process has been continuously developed since its inception in 2015. The recent improvements include;

*   Incorporation of software validation before publication as bSI Final Standard
*   Definition of scope and deliverables
*   Definition of project funding model
*   Committee elections
*   Enhanced remit of the Standards Committee Technical Executive to assess project Expert panel outputs
*   Integration with ISO and CEN initiatives
*   Revisions to published standards
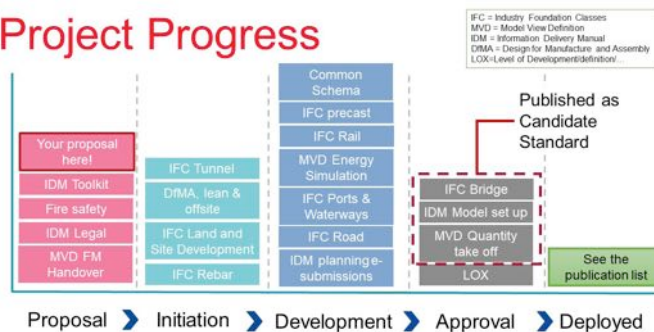
International Standards

buildingSMART has its world renowned Industry Foundation Classes Standards (IFC) which is ISO certified. The ISO 16739 standard was published in 2013.

The BIM Collaboration Format (BCF) version 2.1 is now available on the buildingSMART GitHub site for community members needing access to source code and documentation.
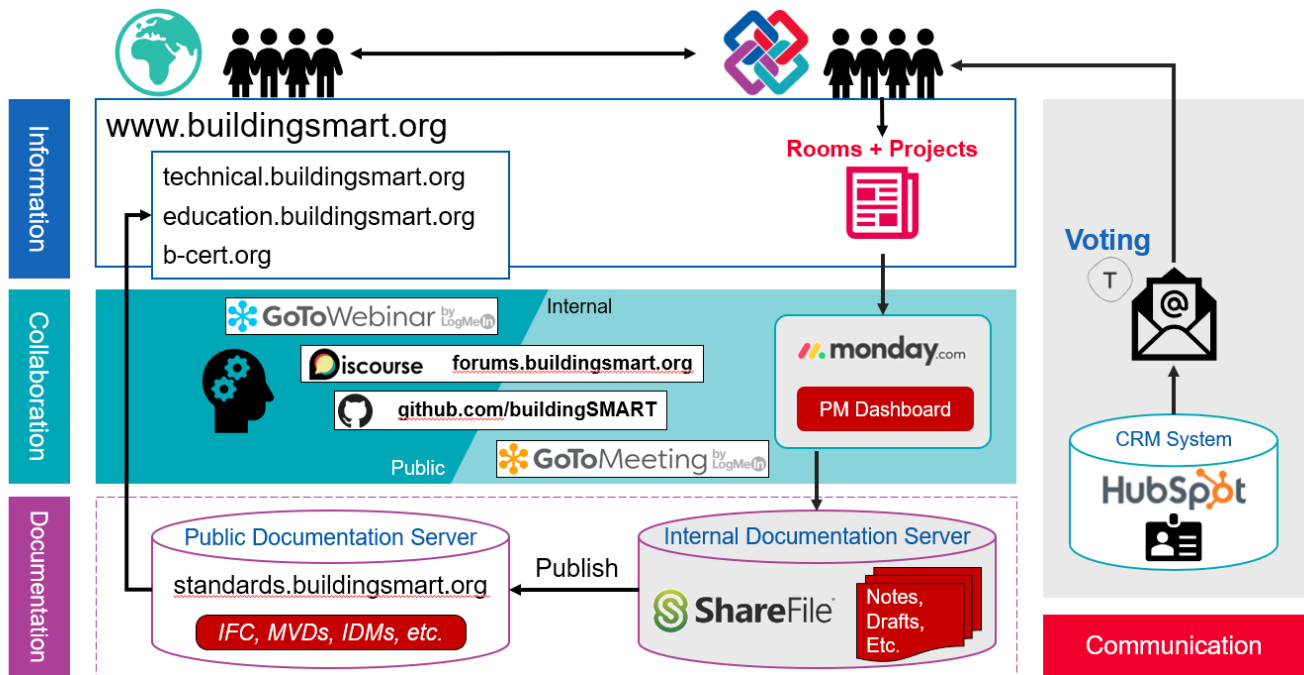
The BCF API was published as a support for exchanging issues between software applications via a RESTful web interface. This is also available on GitHub.

The IFC Rail project—with a EURO €5 Million commitment continues to develop at a rapid rate. In early 2019 the first conceptual model was shown to show the progress as it aligns with the technology. This project includes contributors from several international rail operators

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Technical Reports

A technical report on Infrastructure Asset Managers BIM Requirements was published in 2018. This report focuses on the value of whole-life value for assets by enabling "open" standards driven by buildingSMART. Current asset management practice tends to focus on retrospective information. This report aims to put data at the center by availing it during different phases of the lifecycle.

Room Governance

Room Steering Committees are responsible for setting the long-term roadmap for each Room to reflect the needs of the industry. They are also responsible for overseeing the projects that deliver the solutions and standards that respond to these requirements.

Elections have been held to strengthen the Building, Infra and Product Rooms. In addition, the Standards Committee Executive have endorsed the appointment of a Technical Room Steering Committee.
The Technical Room provides a service to the other Rooms and addresses the maintenance of the supporting technology that is used for the development, existence and use of standards, as well as the development of new technology.

"buildingSMART has never been is such a strong position"

Communications and Voting

The Standards Committee continues to grow and has doubled in size in just over two years as a result of buildingSMART International's increasing membership. Having a diverse committee is what ensures robust international consensus when standards are being endorsed. The Standards Committee was called on to vote 8 times in 2018.

Initiatives that were launched through the bSI Process included; Product Data Template, DfMA & Lean use case definition, Precast concrete IFC extension and MVD, Ports & Waterways open standards, Library exchange standard, automated code compliance checking standard and a Site, Landscape and Urban planning data modelling and exchanges standard.

The voting process is now governed through the CRM, providing a streamlined way of managing votes cast. The consolidation of systems is helping to improve the overall management of the program and ensuring members get a better experience when voting. See the process diagram above for an overview of the information flow network.

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Compliance

In general terms, the need and vision for the Compliance Program remains broad and as previously set out. The priorities in 2018 were the Software Certification Services and Professional Certification.

Software Certification

Demand for certifications of the established IFC 2x3 exchanges continued to be healthy with 15 new software exchanges being certified during the year. This is a good indicator of the continuing and growing use of IFC based exchanges in project work.

Software certification services continues to be led and support by the Institute of Applied Building Informatics (IABI), AEC3 and Apstex. The focus during 2018 was time-consuming work with the vendor community via the Implementer Support Group to specify the appropriate exchange requirements and what should be expected of any particular exchange. This has proved far more problematic than first envisaged. These requirements for the Reference View were finally agreed in late 2018, early 2019 and certification of new software against the Reference View are underway and the first milestone achieved by Vectorworks in April 2019 for IFC4. More software vendors are expected to follow shortly.

The learning from the 2018 experience for the Reference View has meant that the specification and methodology for the planned Design Transfer View now needs further review and greater upfront specificity from users as to their requirements. The Professional Certification activity, another important element of bSI's Compliance Program, is addressed in a later section.

IFC4 Software Certification Delivers First Milestone

London, (April 25, 2019) – buildingSMART International announces the first approved IFC4 Reference View 1.2 Export Certification (Architectural Reference Exchange) as software provider Vectorworks, Inc. This certification is the first of what is anticipated to be many, with other vendors such as Autodesk, GRAPHISOFT, Solibri and others close to completion. It is also the first certification since the upgrade to IFC4 on the new certification platform. The new IFC4 certification...

Read More

User Program

The vision for the buildingSMART user program remains the comprehensive enablement of openBIM based solutions for front line users. Chapters play a major role in the fulfilment of this program both collecting local user requirements and deploying openBIM solutions.

The growth of the Chapter Network is important in extending the breadth of user engagement. Chapter Network development is discussed in section 15.

Similarly, the development of the Professional Certification scheme and its roll out through the Chapter Network is focussed on enabling upskilling of users and encouraging a common international framework to support the use of openBIM solutions.

"The Professional Certification program provides buildingSMART with a means to directly engage with the worldwide user community and guide them in the their understanding of openBIM based working. The program strengthens the engagement between bSI and Chapters and provides both Chapters and bSI with greater market presence, relevance, and ideally a modest revenue stream."

Mark Baldwin
Professional Certification Leader

Launched: **May 2018**
Total qualifications: **300+**
Active Chapters: **7**
Team members: **8**

Chapters are encouraged to form local 'mirror' working groups locally to align with the international Rooms. There are formal entry points through the buildingSMART Process which facilitate the elevation of requirements and solution proposals from Chapters to Room Steering Committees. These needs are usually developed based on specific use cases. buildingSMART is working to develop a Use Case Management tool to assist and improve this process and, likewise, the dissemination of solutions.

Support services are discussed elsewhere and are designed to assist users in the practical application of solutions in real-life. buildingSMART is seeking to expand these services and enable open source tool communities to deliver against specific demand and requirements.

Communications are being improved with digital platforms such as webinars enabling users to consume new methods of learning materials through new forms.

buildingSMART Webinar

Project Pontsteiger
Topic: Setting a New Standard for Construction
Presenter: Jeffrey Truijens, Dura Vermeer
Registrations: 380
Attended: 144

"Information-driven process as a condition for successful digitization."
- Jeffrey Truijens

One of the fastest growing areas is the bSI Awards program which was once again very successful in 2018. A total of 84 projects were submitted, 56 meeting next stage criteria and 40 being considered by the independent jury. In total, there were four category winners and 6 special distinction recipients. For a more detailed review, see the awards section.

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Awards Program

2018 saw a record year for award submissions with a total of 85 from 20 different countries for the initial round of submissions. Next, the jury reduced the number to a final number of 40 projects for review once the full documentation had been completed.

The awards ceremony took place at the International Standards Summit in Tokyo. With a comprehensive jury adjudicating on the submissions, buildingSMART was pleased to award the following projects with prestigious awards.

Winners of a buildingSMART 2018 award are as follows;

Winner for Design:
Avinor/Team_T – Avinor, Oslo Airport – T2 Project

Winner for Operations and Maintenance:
Minnucci Associati s.r.l, The Naples Central Station Project

Winner for Construction:
Bouwcombinatie Pontsteiger, The Pontsteiger Project

Winner for Student Research:
Universidade de São Paulo, The Automation of Reinforcing Bars for Concrete Structures Project

Special Distinction Winners:

China Railway Design Corporation
- The Mudanjiang-Jiamusi Passenger Dedicated Railway Project

Losinger Marazzi
- The Quai Vernets Project

Losinger Marazzi
- The VORTEX Chavannes-près-Renens Project

Interlink
- The Asset Information Management Using Linked Data for the Lifecycle of Roads Project

Strathclyde University
- The VR/AR-BIM Audio Query System Project

Guru Nanak Dev Engineering College
- The Computer Aided Code Compliance of Reinforced Concrete Project

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Fellows

In 2017 buildingSMART established a Fellowship Scheme to honour long-serving professional contributors who have been the organisation's lifeblood over many years. buildingSMART wishes to ensure this scheme rewards those who contribute exceptionally, and is recognised as a very high honour.

It must also grow in stature over the long-term, sustaining the vital concessionary professional contributions on which buildingSMART depends.

In 2019, buildingSMART recognized the latest to join the fellowship program;

Christophe Castaing
France

Birgitta Foster
USA

Roger Grant
USA

Tomi Henttinen
Finland

Inhan Kim
South Korea

Susan Keenliside
Canada

Nick Nisbet
UK&I

Øivind Rooth
Norway

Jøns Sjøgren
Norway

Existing fellows:
Yoshinobu Adachi, Kjell Ivar Bakkmoen, Francois Grobler, Chris Groome, Reijo Hänninen, Ian Howell, Rudolf Juli, Jan Karlshøj, Arto Kiviniemi, Thomas Liebich, Alain Maury, Patrick MacLeamy, John Mitchell, Rasso Steinmann, Cheng Tai Fatt, Vaino Tarandi, Mikio Shoji, Jeff Wix.

Services

In order to provide clarity regarding buildingSMART's open and neutral status, and how revenue-generating services may or may not impact this, bSI is seeking to provide transparency of around service-orientated activities.

buildingSMART specifically seeks to avoid activities which are commercial and better fulfilled by market actors. Nonetheless, there are certain activities or roles which bSI believe it should be providing a service of its own. It should be noted that in certain cases such involvement may be temporary to initiate a market activity or open source community activity.

Where a legitimate service activity can be identified and developed to support buildingSMART in the medium term it is the intention of the board to support such activities. The specific services currently operated or developed by bSI where it charges service fees are; Software Certification, Professional Certification and the buildingSMART Data Dictionary (bSDD). All three of these services are operating with associated costs that are in excess of revenues. Commentary has been made on the certification activities in the Compliance Program section.

buildingSMART Data Dictionary (bSDD)
bSI continues to believe that there is a unique role for an interconnected dictionary which is open neutral and independent of any specific political control.
A clear operating model for the bSDD has been developed as the basis for future operations. In order to bring such a service to market, (in line with the new European Standards) considerable investment in business processes and quality controls are required. bSI has, and, continues to seek partners and project opportunities to carry out these developments. A number of opportunities have been identified however the timing of these is uncertain.

At the same time, bSI needs to keep pace with the changing landscape and increased levels of demand. By supporting the digital transformation, which includes enhancing digital workflows, machine-readable semantics, and fast-moving industry requirement, bSI is focused on modernizing its services. These services need to be interoperable, semantic and robust. bSI is also striving for leadership for common frameworks such as vocabularies and ontologies as a method of linking and connecting sources of data.

As a result, bSI is implementing a 'Beta Service' based on the existing technology and using resources available. buildingSMART Norway has provided considerable support to this effort for which bSI wishes to note.

bSI has been able to repay the loans due to Catenda in the bSDD Source Code and the source code has now fully under bSI control. buildingSMART is grateful for and continues to depend on Catenda for their expertise and knowledge base for the technology.

The Beta Service is being brought to market via specialist agents headed by the buildingSMART bSDD Operations Manager and primarily aimed at content creators including importantly IFC projects. The first Agents have now been successfully engaged and are assisting bSI to develop both the underlying technology and the quality control processes.

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Airport Room

Core Mission

The mission of the Airport Room is to develop and deploy open digital standards for the airport environment. The unification of digital airport standards will enable more efficient working from the common supply chain and create a uniform approach for the industry.

The Airport Room continues to develop having recently appointed a strong Steering Committee of industry representatives in early 2019, and they are refining the Room Roadmap.
Some of the key objectives for the Room include;

- Unification of specified digital open and neutral standards
- Enabling economies of scale with the supply chain and maintenance suppliers
- Linking to the wider buildingSMART environment
- Completing the existing standards with airport-specific objects, data and processes
- Integration of these standards to align the building, infrastructure and airport processes
- Enabled asset management decisions based on cost, risk and performance derived from openBIM for the entire lifecycle of airport facilities
- Innovative solution decisions designed to reduce disruption at airports
- Collaboration with the other buildingSMART Rooms

There are several working projects for the Airport Room. This includes the development of a workplan that focuses on better management of airport assets. Work has begun on developing exchange requirements, particularly on the relationship between BIM and GIS. There is also a plan in place to develop an MVD for GIS. Identification of the functional requirements of a Common Data Environment (CDE) for airport facilities is also high on the priority list. And in September 2019, there is a plan to participate in Hackathons to quickly deliver specific solutions against airport requirements.

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Building Room

Core Mission

The core mission of the Building Room is to create open digital standards and solutions by enabling intelligent data that either contributes to the planning, design and construction of buildings, or the ongoing operations and maintenance. This will enable process and data integration for buildings for the entire lifecycle.

The Building Room is led by a steering committee comprised of representatives from international members and local buildingSMART chapters that are focused on a variety of projects. Great progress has been made throughout 2018 into 2019 with many projects being developed.

*   Some of the key objectives of the Building Room are:
*   Open standard data exchange for building whole life management
*   Asset management exchange of information
*   Enduring archives of asset information
*   Digital project management

There are a number of ongoing projects making good progress including MVD Quantity Take-off, MVD Energy Simulation, IDM Model Set Up and MVD Facility Management Handover which aims to help manage the handover from construction to operation (COBie).

Other project work includes IFC Precast to future-proof interfaces already used in the preliminary process as well as historic interfaces used in the prefabrication process and IFC Rebar as an exchange of data related to reinforcing steel between software applications.

Construction Room

Core Mission:

The mission of the Construction Room is to advance site productivity, lower construction costs, and improve construction safety through the use of openBIM and the application of open data standards. The room aims to boost the use of digital tools and standards to improve overall performance and aims to change the entire construction industry for the better.

The Construction Room will begin to develop solutions and standards through many use cases and best practices around the world. The room focuses in particular on API's and new emerging technologies that applies to solutions and standards. This room has some of the most advanced concepts and trends to improve the overall use of technology in projects and develop new ecosystems.

Some of the key objectives of the Construction Room are:

*   Advance the digitalization of construction
*   Develop site environment best practices based on openBIM
*   Provide openBIM education to the construction industry
*   Incorporate forward-looking ICT technologies into the development of open construction solutions and standards

With a strong focus on new technologies, the Construction Room continues to focus efforts on new and emerging business trends. Ongoing projects include Construction Information Management, Integrated BIM Project Management, 4D/5D modeling, BIM and the Internet of Things (IoT) and Robotics. Further projects being developed also include big data analytics, AI, and construction planning automation. The Construction Room also focus on data exchange with other industries with API technology as well as applying codes and standards across the supply chain. The use of reality capture and modeling in the construction process is also a focus area as well as applying codes and standards across the supply chain remains a strong focus area.

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Infrastructure Room

Core Mission

The Infrastructure Room aims to combine, enhance and develop open standards for intelligent data, which enable process and data integration for infrastructure projects and assets. The Infrastructure Room leads buildingSMART efforts in a number of areas, including roads, bridges, tunnels, ports and waterways. The room is led by representatives from buildingSMART members and chapters that come from consulting engineering firms, owners, and academic institutions, as well as other industry experts. This room itself has grown significantly thanks to a variety of major projects and continues to attract new members and contributors to the standards created.

Some of the key objectives of the Infrastructure Room are:

- Enable data exchange based on open standards for the planning, realization and maintenance of infrastructure works and ultimately all aspects of the built environment
- Improve the exchange of information and open data access between asset management databases
- Promote enduring archives of asset information based on open standards
- Enable lifecycle information management for infrastructure based on open standards
- Enable the merging of project related information e.g. requirements and risks, with asset information

Projects in the Infrastructure Room are accelerating at a rapid rate. Projects, however, continue to need support and involvement from the industry. There are a few projects that are nearing completion and will require engagement from the software community. Other projects in the room continue to have cross-room importance such as the Common Schema Project which aims to addresses common elements that cross infrastructure domains such as rail, road, bridge and others. Further work is underway on the Integrated Digital Built Environment (IDBE), a collaboration with the Open Geospatial Consortium (OGC) to increase the interoperability between data for both the geospatial and built environment domains. Further work is being done on CEN TC 442 Cooperation project by increasing the collaboration with the European standardisation body CEN on openBIM standards and the LEXS project (Library Exchange Standards). IFC 4.1 Alignment continues to gain traction in the deployment phase and IFC Bridge 4x2 draft Standard is ready for approval by bSI and deployment will follow. IFC Tunnel is finalizing the global process map, performing gap analysis with existing schemas, and working on the tunnel system breakdown structure. IFC Ports and Waterways moves into the finalization of the requirements analysis, IDM, and the taxonomy, meronomy, and properties report will be followed by the IFC extension development including conceptual modeling, extension authoring, MVD(s) definition, modeling guidelines, and software development. IFC Road has published the requirements analysis report and Process Map as well as the overall Road Conceptual Model.

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Product Room

Core Mission

The Product Room's core mission is to manage the development and provision of processes, templates, tools and functionality to enable the robust and efficient use of product data. This includes relevant third-party standards, classification systems and other forms of structured content for openBIM.

New working groups have been developing from the Product Room to help cultivate new demands and groups. This includes product manufacturers who have a specific requirement to organize data into a structured methodology. The steering committee is comprised of representatives from international members and local buildingSMART chapters.

Some of the key objectives of the Product Room are:

- Develop the tools and templates that support the buildingSMART Data Dictionary
- Enable the efficient use of product data in projects and subsequent asset management
- Develop and execute projects for product support to advance the development of openBIM
- Facilitate the translation and localization of IFC

Throughout 2018, the Product Room continued to develop many new projects. Some of the main projects included shared terminology standards libraries, tools and procedures including alignment with related standards projects at CEN and ISO. Review and improvement for tools and terminology between IfcDoc – bSDD integration. There is also ongoing work on the revisions of the Library Exchange Standard (LEXS) plan to establish a specification for an Ontology Framework to use bSDD-content for linking to other ontologies in liaison with the CEN-workgroup CEN/ TC442/WG4/TG3. There is a new working group for advancing the supply chain needs in a proposal to connect bSI and GS1 standards which will ultimately develop a new Room for product manufacturers.

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Railway Room

Core Mission

The core mission of the Railway Room is to accelerate and exploit new digital opportunities for railway systems and create a comprehensive and applicable digital representation of the entire railway ecosystem that will support all phases of the lifecycle. This provides the basis of interoperable support systems, reduced complexity, secure and safe solutions and reduced costs for all stakeholders.

The Railway Room steering committee is led by representatives from ÖBB-Infrastruktur, SBB, Trafikverket, CRBIM, MINnD, SNCF, FTIA, and RFI and oversees the largest international project at bSI, called the IFC Rail Project. This project is developing with a conceptual model showcased in early 2019 and completion of the standard still on track for 2019.

Some of the key objectives of the Railway Room are:

- Develop interoperable support systems
- Reduce the complexity of the rail ecosystem
- Assure secure and safe solutions
- Reduce project cost and delay for all partners
- Work with buildingSMART, rail owners and operators, and other stakeholders to:
- Extend the IFC Infrastructure Schema for the rail domain, construction and maintenance
- Contribute to IFC Common Schema development
- Build on international consensus
- Take into account iterative works with complementary data and IFC deployments
- Support early deployment and testing by making the deliverables publicly available and open

With the main IFC Rail Project being the focal point of this room, specific activities of the room are divided into several initiatives supported by a Project Management Office and a Technical Services team. The groups are developing requirements, user cases, Information Delivery Manuals (IDM), UML models, and process maps in order to progress IFC Rail. These initiatives include Track Domain, Energy Domain, Signaling Domain, Telecommunication Domain, and Technical Services. The Common Schema project is improving collaboration with the Infrastructure which crosses infrastructure domains such as rail, road, bridge and others. There is also development of an IFC Rail Tutorial to provide a self-contained comprehensive tutorial for education and communication with the rail industry.

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Regulatory Room

Core Mission

The core mission of the Regulatory Room is to help both facility owners and regulatory authorities benefit from the use of openBIM to meet expectations. The vision is an automated regulatory process, achieved by supporting gradual change in workflow from manual to fully automated, whilst safeguarding the legal perspective.

The Regulatory Room continues to improve in the development and procedures through rigorous guidelines and to support activities across the community. The Regulatory Roadmap continues to develop with short, medium and long-term goals, based on its published charter and roadmap.

Some of the key objectives of the Regulatory Room are:

• Standardize processes, workflows and procedures for applicants and regulators based on openBIM and support them with tools, guidelines and manuals
• Support interoperability between Regulatory, Requirements and Recommendatory (RRR) content
• Provide an open discussion room for each government's building regulators, researchers, and implementers to promote openBIM based processes and collaborative issues
• Be an arena for government regulatory bodies to share information, inspire and implement automated code checking using openBIM standards including ISO 16739 in real life situations.
• Lead and manage projects and initiatives to facilitate and influence adoption by stakeholders.

The room is developing many projects including e-Submission Guidelines as a Candidate buildingSMART Technical Report to deliver a common understanding of approvals and evaluation of BIM institutionalization. There is an Application Forms Report and MVD Project Proposal that is currently in process and business case for an Automated Code Compliance initiative to continue development of the business case and enhancement of current technologies to develop a model checker that performs rule-based code compliance checks within the BIM model. The Room is also preparing standardised Use cases for BIM in Regulatory Processes. The Regulatory Roadmap continues to develop with short, medium and long-term goals. There is a BIM in Regulatory Processes Use case and requirements development for regulatory processes, such as permitting, BIM data management, and Common Data Environment (CDE).

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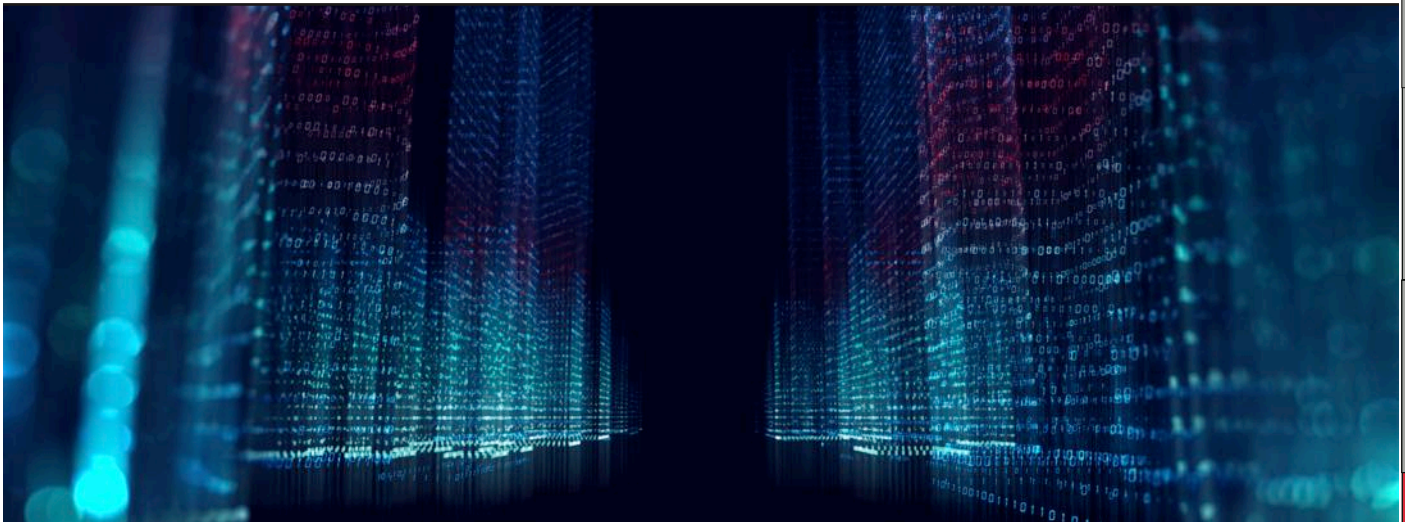Chapter Network

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Technical Room

Core Mission

The Technical Room provides a service to other rooms for the technical direction of the solutions and standards that are developed. The coordination of the core technical development of the IFC model and associated technical standards fall within the remit of this room. This helps with the development of openBIM to fully meet users' needs and ambitions, including a full modernization of the technical outlook.

The Technical Room is continuing to oversee the strategic direction of the standards and solutions for the industry. This includes the entire ecosystem for buildingSMART, from IFC to additional services that benefit end users. Through the strategic leadership, the Technical Room is managing the modernization efforts to ensure sustainability and usability of the technology as a means to keep pace with the ever-changing demands.

Some of the key objectives of the Technical Room are:

- Pursue innovative programs to align with the fast-moving digitization of the industry
- Ensure buildingSMART benefits from that latest technical research and advances from university or industry and develops an active technical community
- Continuously develop, improve and maintain the IFC specification and support its implementation in IFC compatible software
- Proactively support interfaces with other standards and working platforms such as geospatial and web standards.
- Develop workflow enabling toolkits
- Enable strategic implementations of buildingSMART standards

Activities in the Technical Room continue to develop at a good rate. This includes the ongoing maintenance and enhancement of the bSI standards and associated tools and the Implementation Support Group that promotes the use of bSI standards enabling digital workflows for the exchange of built asset data among different software products and platforms. By supporting the Software Certification Group, this room is helping to improve the development and deployment of software against standards. Work is being done on IfcDoc to improve the consistent and computer-interpretable definition of Model View Definitions (MVD) as true subsets of the IFC Specification with an enhanced definition of concepts. Further work is being done on the Linked Data Working Group to develop and maintain a recommended ifcOWL ontology for use in linked data and semantic web applications that consume IFC data. A framework is being developed for Digital Twins. Finally, an IDM Toolkit Project is being developed to create a simple application for an industry professional to define their BIM processes (uses cases) based on the IDM methodology and support the use of machine-readable IDMs.

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Chapter Network

2018 was a positive year for the Chapter network. Austria and Italy became developing chapters and expressions of interest increased from around the globe. There were also formal requests from a variety of potential future Chapters.

Full Chapter Network Status
- Benelux
- Canada
- China
- France
- Germany
- Japan
- Korea
- Nordic
- Norway
- Russia
- Switzerland
- UK
- USA

Developing Chapter Network Status
- Australasia
- Austria
- Italy
- Singapore
- Spain

Chapters in Formation
- Poland
- Turkey

It is the intention of bSI to support the transition of the Nordic Chapter hub to form their own chapters. This would mean Sweden, Denmark and Finland would soon become their own Chapters.

Other scenarios, like expressions of interest, bSI continues to consider the concept of a "hub" for the development and launch of new Chapters.

Expressions of Interest
- Brazil
- Chile
- Croatia
- Estonia
- Hong Kong
- Latvia
- Lithuania
- Mexico
- Peru
- Portugal
- Slovenia
- United Arab Emirates

bSI is are aware that some of our older, legacy Chapters are facing challenges of either renewal in the face of growing country expectations or of sustaining growth, and therefore require attention. The challenges and status of individual Chapters are provided by way of updates at the Chapter leaders' forum. This continues to be a challenging time for many, but it's also a significant time of growth and opportunity. As a collective, buildingSMART is stronger with a robust network of support and expertise. The process of planning, initiating, developing and managing a new Chapter remains a challenge and requires a significant level of commitment from many parties.

The challenges and status of individual Chapters are provided by way of updates at the Chapter leaders' forum. This continues to be a challenging time for many, but it's also a significant time of growth and opportunity.

BuildingSMART International delivered rebates to the Chapters of €162k for 2018 membership illustrating that as a collective, buildingSMART is stronger with a robust network of support and expertise.

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Membership

Membership continues to grow steadily, and 2018 was another positive step in the right direction. Including early 2019, some key organizations joined bSI. There continues to be three levels of membership; Strategic, the newly renamed Multinational and Standard. Strategic membership is the most influential level, with members contributing to the strategic direction of buildingSMART through a variety of benefits. These include the Strategic Advisory Council meetings, hosted twice yearly. Multinational members are entitled to be members of upto five local Chapters in addition to membership of bSI. Standard members are also given membership of a local Chapter of choice plus membership to bSI.

As of early 2019, there are six strategic members: Arup, Autodesk, China Communications Construction Company (CCCC), China Railway BIM Alliance (CRBIM), Nemetschek Group and Siemens. There are twelve multinational members and twenty-seven standard members. Members sit on the Standards Committee, which endorses the creation of standards, and can work in Room Committees and on projects. Members benefit from the collective local and international activities of other members. They play an active role, not only in identifying issues, but also in developing solutions.

> *"Membership continues to be our method for sustainability, but new potential business models would help the community immensely"*

New members during the year were the giant product manufacturer, Siemens and China Communications Construction Company (CCCC) (strategic); Bentley Systems, Bluebeam, GRAPHISOFT, STRABAG SE as multinational and ACCA Software, Basler & Hofmann, BIM Infra.dk, Cemex, DBA Group, Leica, OYO Corporation, Politecnico Milano, ProMaterial, Rete Ferroviaria Italiana (RFI), The Washington Metropolitan Area Transit Authority (WMATA) all as standard members.

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Sponsors

buildingSMART projects rely on work carried out with the help of professional contributors from formal work-in-kind and funding from industry sponsors. Without this direct support, the projects would not be able to succeed.

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Marketing and Communications

2018 was a strong year for the development of the marketing and communications professionalisation. With the additional resources brought in, investments in the outreach of the community have been improved steadily. There has also been a greater focus on streamlining communications channels as community members benefit from new tools and platforms that augment the work done in the various programs.

Websites

A redesign and refresh of www.buildingsmart.org was completed to provide a clearer way for everyone to see what's happening in the community and how you can get involved. There is also more emphasis on user projects to show the final output from the solutions and standards program.

In 2018, the buildingSMART Forum was launched, located at https://forums.buildingsmart.org/. This interactive platform provides users a variety of ways of getting involved and engaging with the community. Via managed moderators and subject-related posts, users can submit questions, provide feedback and interact with experts.

There was also the launch of the new Technical site, located at https://technical.buildingsmart.org/. This much improved website provides technical material and documentation related to the standards program and technologies that support it. This project was developed was carefully managed to ensure the outdated previous site could be slowly migrated and turned over to the new domain.

The Professional Certification program was launched in May 2018 and information is located at https://education.buildingsmart.org/. This program aims to provide openBIM training by providing standardised content and materials. This process also involves testing and accrediting training providers.

Platforms

bSI invested in a new CRM as a means to manage the community outreach program. This included recently introduced items like a monthly newsletter, benefits of membership, voting processes and the new blog page. HubSpot was chosen as the platform of choice to be able to deal with the requirements needed to manage the international community.

GoToMeeting and GoToWebinar continue to be the tools of choice for video and voice conferencing. GoToMeeting is predominately an internal platform for communication and GoToWebinar is a platform that delivers online learning and project topics.

GitHub continues to be the platform of choice for managing open source code and documentation. The buildingSMART page be found at github.com/buildingSMART.

Citrix ShareFile continues to be the document management tool for the community. This platform provides users access to project documents, summit materials and other important files. This platform works well globally and ensures bSI can manage the permissions carefully.

Monday.com is the tool for project managing the rooms and the output. This includes working documents, tasks and deliverables and roles and responsibilities. This is an integral part of the Solutions and Standards Program and provides excellent program management capabilities.

Please note the Intranet has now fully closed as it's functionality has been superseded by other platforms.
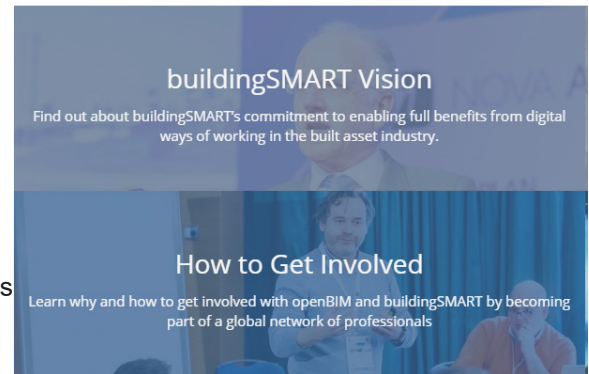
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Social Channels

LinkedIn continues to see a steady rise in follows and engagement. This is the best tool for interaction as engagement with posts can reach up to 10,000. The following for this channel is currently at **8,401.**

Twitter is used for communicating relevant community news and information. This is growing steadily too and now has a following of **5,746.**

YouTube provides video content to the community and has a following of **733**.

Vimeo is the video hosting application and manages the larger video files. Output from webinars are hosted here and videos can be viewed on-demand after the fact.

Facebook continues to grow with high engagement rate and a preference in Asia pacific region. It now has a following of **1,072**.

News

In 2018, there were a variety of press-worthy news stories that gained a lot of traction in the industry. If any news items were missed, here are some important highlights;

• Signed MoU with WGIC
• Signed MoU with GS1
• IFC 4 Certification milestone
• UniversalTypes agreement
• New co-technical lead

Other initiatives launched included;

• Launch of the bSI Blog site
• Chapter news channel
• Four case studies produced
• Webinars delivered

"Our engagement growth is fantastic"

Governance and Finance

buildingSMART International is incorporated in the UK as a company limited by guarantee while the Chapters, which are self-governing, are set up according to the legal framework in their home country. The International Council (IC) consists of representatives from the Chapters in their governance capacity and holds an annual general meeting. Each Chapter sends two representatives to the IC meetings. A Board is elected at the annual International Council meeting.

The Strategic Advisory Council (SAC) also advises bSI, and during the year SAC members met with the Board on two occasions. Four full-time officers are employed by bSI: a Chief Executive, an Operations Director, a Marketing Director (who joined in the middle of 2018) and a Business Administrator. The Chief Executive is also the company Secretary.

Other services are also procured on a fee basis, and include technical support for solutions & standards development, an international Project Coordinator, a bSDD Product manager, communications support and website management.

The principal source of income for bSI is membership dues which in 2018 contributed €1,112,000. Income from Chapter membership stood at €283,000 of which €162,000 was returned to the Chapters under the rebate scheme. Income from services was €62,00, which was due to software certification. Most of this software certification income, however, washes through with payments to the service provider. The income stream from the new bSDD licences and the Professional Certification service did not generate an income in time for 2018 but has now started providing in 2019.

The principal outgoings from the core overheads are bSI management (€651,000 in 2018). Management costs increased due to the recruitment of the new Marketing Director and the agency search fees for a Technical Director. As the organisation achieves more engagement from the international community to work in the programs, so the fixed overheads increase. Travel costs were €116,000.

Projects are funded separately, with total funding and expenditure balancing out on project completion. The large increase in project funding showing in the accounts for 2018 is predominantly due to the Rail project.

The currency exchange rate between the Euro and GBP brought a negligible benefit in 2018. The year ended with a surplus of €203,000 and the total equity is €428,000 Increasing revenue, chiefly through membership, remains a priority. The accounts are published at the end of this report.

2018 Full Year

Income	2017 Actual	2018 Budget	2018 Actual
Chapters	292	290	283
Membership	894	1,235	1,112
Chapter rebate	(98)	(169)	(162)
Services	293	290	62
Projects	151	150	2,119
Other income	0	0	168
Exchange gain on income	0	0	7
Income Total	**1,531**	**1,796**	**3,589**

Expense	2017 Actual	2018 Budget	2018 Actual
bSI Core overheads	825	1,023	1,046
Room overheads	179	226	160
Services	245	277	68
Projects	158	150	2,126
Currency exchange	(3)	25	(13)
Expenses Total	**1,403**	**1,701**	**3,386**

Surplus / Deficit	128	95	203
GBP to Euro rates	1.13	1.15	1.11

€000s

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Priorities for the Coming Year

Overall goal is be respected as THE 'go to' place to develop open interoperable digital workflows for the built environment sector.

The 2019 High Level Priorities:

- **Communications and engagement** – our work, progress and value proposition should be known much more broadly, seek to engage new communities, attract increased membership
- **Solutions and standards** – process iterated to improve rigor, effectiveness and third-party credibility, Road Maps, deployment workflows and process developed.
- **Technical leadership** – recruit staff leadership, improve leadership and governance processes. Improve coordination with ISO and CEN.
- **Business model and Chapters** – focus on Standard and Multinational Members, investigate possibilities for sustainable revenue streams which do not conflict with our open neutral status. Encourage Chapter Hubs and support Chapter in transition.

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BUILDINGSMART INTERNATIONAL LIMITED

Company Registration No. 05024694 (England and Wales)

BUILDINGSMART INTERNATIONAL LIMITED UNAUDITED FINANCIAL STATEMENTS
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AS AT 31 DECEMBER 2018

	Notes	2018 £	£	2017 £	£
Non-current assets					
Intangible assets	3		172,171		-
Property, plant and equipment	4		3,605		5,358
			175,776		5,358
Current assets					
Inventories		10,999		10,999	
Trade and other receivables	5	1,173,868		197,731	
Cash and cash equivalents		1,099,546		864,181	
		2,284,413		1,072,911	
Current liabilities	6	(1,957,552)		(928,143)	
Net current assets			326,861		144,768
Total assets less current liabilities			502,637		150,126
Non-current liabilities	7		(116,739)		-
Net assets			385,898		150,126
Reserves					
Capital contribution reserve			52,431		-
Income and expenditure account			333,467		150,126
Members' funds			385,898		150,126

The directors of the company have elected not to include a copy of the income and expenditure account within the financial statements.

For the financial year ended 31 December 2018 the company was entitled to exemption from audit under section 477 of the Companies Act 2006 relating to small companies.

The directors acknowledge their responsibilities for complying with the requirements of the Companies Act 2006 with respect to accounting records and the preparation of financial statements.

The members have not required the company to obtain an audit of its financial statements for the year in question in accordance with section 476.

These financial statements have been prepared and delivered in accordance with the provisions applicable to companies subject to the small companies regime.

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AS AT 31 DECEMBER 2018

The financial statements were approved by the board of directors and authorised for issue on .... and are signed on its behalf by:

....
Mr W Moore
Director

Company Registration No. 05024694

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	Notes	Capital contribution reserve £	Income and expenditure reserve £	Total £
Balance at 1 January 2017		-	36,719	36,719
Year ended 31 December 2017:				
Profit and total comprehensive income for the year		-	113,407	113,407
Balance at 31 December 2017		-	150,126	150,126
Year ended 31 December 2018:				
Profit and total comprehensive income for the year		-	183,341	183,341
Capital contribution reserve		52,431	-	52,431
Balance at 31 December 2018		52,431	333,467	385,898

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	Notes	Capital contribution reserve £	Income and expenditure reserve £	Total £
Balance at 1 January 2017		-	36,719	36,719
Year ended 31 December 2017:				
Profit and total comprehensive income for the year		-	113,407	113,407
Balance at 31 December 2017		-	150,126	150,126
Year ended 31 December 2018:				
Profit and total comprehensive income for the year		-	183,341	183,341
Capital contribution reserve		52,431	-	52,431
Balance at 31 December 2018		52,431	333,467	385,898

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1   Accounting policies   (Continued)

The gain or loss arising on the disposal of an asset is determined as the difference between the sale proceeds and the carrying value of the asset, and is credited or charged to surplus or deficit.

1.5   Impairment of non-current assets

At each reporting period end date, the company reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). Where it is not possible to estimate the recoverable amount of an individual asset, the company estimates the recoverable amount of the cash-generating unit to which the asset belongs.

Recoverable amount is the higher of fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognised immediately in surplus or deficit, unless the relevant asset is carried at a revalued amount, in which case the impairment loss is treated as a revaluation decrease.

Recognised impairment losses are reversed if, and only if, the reasons for the impairment loss have ceased to apply. Where an impairment loss subsequently reverses, the carrying amount of the asset (or cash-generating unit) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognised for the asset (or cash-generating unit) in prior years. A reversal of an impairment loss is recognised immediately in surplus or deficit, unless the relevant asset is carried at a revalued amount, in which case the reversal of the impairment loss is treated as a revaluation increase.

1.6   Inventories

Inventories are stated at the lower of cost and estimated selling price less costs to complete and sell. Cost comprises direct materials and, where applicable, direct labour costs and those overheads that have been incurred in bringing the inventories to their present location and condition.

Inventories held for distribution at no or nominal consideration are measured at the lower of replacement cost and cost, adjusted where applicable for any loss of service potential.

At each reporting date, an assessment is made for impairment. Any excess of the carrying amount of inventories over its estimated selling price less costs to complete and sell is recognised as an impairment loss in profit or loss. Reversals of impairment losses are also recognised in profit or loss.

1.7   Cash and cash equivalents

Cash and cash equivalents are basic financial assets and include cash in hand, deposits held at call with banks, other short-term liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are shown within borrowings in current liabilities.

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1   Accounting policies   **(Continued)**

1.8   Financial instruments

The company has elected to apply the provisions of Section 11 'Basic Financial Instruments' to all of its financial instruments.

Financial instruments are recognised in the company's statement of financial position when the company becomes party to the contractual provisions of the instrument.

Financial assets and liabilities are offset, with the net amounts presented in the financial statements, when there is a legally enforceable right to set off the recognised amounts and there is an intention to settle on a net basis or to realise the asset and settle the liability simultaneously.

Basic financial assets

Basic financial assets, which include trade and other receivables and cash and bank balances, are initially measured at transaction price including transaction costs and are subsequently carried at amortised cost using the effective interest method unless the arrangement constitutes a financing transaction, where the transaction is measured at the present value of the future receipts discounted at a market rate of interest. Financial assets classified as receivable within one year are not amortised.

Classification of financial liabilities

Financial liabilities and equity instruments are classified according to the substance of the contractual arrangements entered into. An equity instrument is any contract that evidences a residual interest in the assets of the company after deducting all of its liabilities.

Basic financial liabilities

Basic financial liabilities, including trade and other payables, bank loans, loans from fellow group companies and preference shares that are classified as debt, are initially recognised at transaction price unless the arrangement constitutes a financing transaction, where the debt instrument is measured at the present value of the future payments discounted at a market rate of interest. Financial liabilities classified as payable within one year are not amortised.

Debt instruments are subsequently carried at amortised cost, using the effective interest rate method.

Trade payables are obligations to pay for goods or services that have been acquired in the ordinary course of business from suppliers. Amounts payable are classified as current liabilities if payment is due within one year or less. If not, they are presented as non-current liabilities. Trade payables are recognised initially at transaction price and subsequently measured at amortised cost using the effective interest method.

1.9   Taxation

The company is a mutual company and as such is exempt from corporation tax on surpluses generated from mutual activities.

1.10   Employee benefits

The costs of short-term employee benefits are recognised as a liability and an expense, unless those costs are required to be recognised as part of the cost of stock or non-current assets.

The cost of any unused holiday entitlement is recognised in the period in which the employee's services are received.

Termination benefits are recognised immediately as an expense when the company is demonstrably committed to terminate the employment of an employee or to provide termination benefits.

1.11   Leases

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1   Accounting policies   (Continued)

Rentals payable under operating leases, including any lease incentives received, are charged to income on a straight line basis over the term of the relevant lease except where another more systematic basis is more representative of the time pattern in which economic benefits from the lease asset are consumed.

1.12   Foreign exchange

Transactions in currencies other than pounds sterling are recorded at the rates of exchange prevailing at the dates of the transactions. At each reporting end date, monetary assets and liabilities that are denominated in foreign currencies are retranslated at the rates prevailing on the reporting end date. Gains and losses arising on translation are included in the income statement for the period.

2   Employees

The average monthly number of persons (including directors) employed by the company during the year was 3 (2017 - 2).

3   Intangible fixed assets

	bSI DD £
Cost	
At 1 January 2018	-
Additions	172,171
At 31 December 2018	172,171
Amortisation and impairment	
At 1 January 2018 and 31 December 2018	-
Carrying amount	
At 31 December 2018	172,171
At 31 December 2017	-

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4   Property, plant and equipment

	Plant and machinery etc £
Cost	
At 1 January 2018	8,167
Additions	385
At 31 December 2018	8,552
Depreciation and impairment	
At 1 January 2018	2,809
Depreciation charged in the year	2,138
At 31 December 2018	4,947
Carrying amount	
At 31 December 2018	3,605
At 31 December 2017	5,358

5   Trade and other receivables

Amounts falling due within one year:	2018 £	2017 £
Trade receivables	658,099	148,616
Other receivables	515,769	49,115
	1,173,868	197,731

6   Current liabilities

	2018 £	2017 £
Trade payables	64,596	86,404
Other payables	1,892,956	841,739
	1,957,552	928,143

7   Non-current liabilities

	2018 £	2017 £
Other payables	116,739	-

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8   Members' liability

The company is limited by guarantee, not having a share capital and consequently the liability of members is limited, subject to an undertaking by each member to contribute to the net assets or liabilities of the company on winding up such amounts as may be required not exceeding £500.

9   Operating lease commitments

Lessee
At the reporting end date the company had outstanding commitments for future minimum lease payments under non-cancellable operating leases, as follows:

	2018 £	2017 £
	3,520	3,520

10   Related party transactions

P E MacLeamey
(director)
During the year the brought forward loan balance owing to the director was gifted to the company and will not be repaid. The value of £52,431 has been credited to the capital contribution reserve in the balance sheet. In addition, the director has also made donations via CAF America which are included as other operating income.

Other member organisations
The directors Professor P I Kim, W H Moore, Professor R T Steinmann, K V Anderson and D Schaper are connected with member organisations, which each pay annual membership subscriptions to buildingSMART International Limited in the normal course of their business.

In the course of normal business, some member organisations also receive payments for services provided to the company. Such services are provided on an arms length basis.

Officers, Board Members and Leaders

Chairman

Patrick MacLeamy

Chief Executive

Richard Petrie

Operations Director

Richard Kelly

Marketing Director

Aidan Mercer

Board Members

Karin Anderson
Inhan Kim
Patrick MacLeamy
Bill Moore
Christophe Moreau
Dirk Schaper
Rasso Steinmann
Kjetil Tonning

Company Secretary

Richard Petrie

Airport Room

Alex Worp
Maya Tryfona

Building Room

David Ivey
Rob Roef

Certification

Mark Baldwin
Rasso Steinmann

Construction Room

Ken Endo
Kazumi Yajima

Infrastructure Room

Jim Plume
Tiina Perttula

Product Room

Roger Grant

Railway Room

Winfried Stix

Regulatory Room

Nick Nisbet
Masaki Muto

Technical Room

Greg Schleusner
Dennis Shelden

Implementation Support Group

Jeffrey Ouellette

MSG

Thomas Liebich

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